

LIST OF CLAIMS

1. (Currently Amended) A process for producing a positive electrode for a secondary battery, said process comprising:

(a) calcining a raw material containing a lithium compound under an oxidizing atmosphere to produce ~~form~~ calcined powders;

(b) forming said calcined powders to a shape of an electrode after incorporating organic fibers or organic polymer particles thereinto; and

(c) calcining the formed calcined powders under the oxidizing atmosphere, thereby obtaining a porous sintered positive electrode;

wherein the calcining in step (a) of the raw material is conducted at a temperature lower than the temperature of calcining in step (c) of the formed powders; and

wherein the calcining of the raw material in step (a) is conducted for a period of time less than the period of time of calcining in step (c) of the formed powders.

2. (Currently Amended) A process for producing a positive electrode for a secondary battery, said process comprising:

(a) calcining a raw material containing a lithium compound under an oxidizing atmosphere to produce ~~form~~ calcined powders;

(b) forming said calcined powders to a shape of an electrode after incorporating organic fibers or organic polymer particles thereinto; and

(c) calcining the formed calcined powders under the oxidizing atmosphere, thereby obtaining a porous sintered positive electrode;

wherein the calcining in step (a) of the raw material is conducted at a temperature lower than the temperature of calcining in step (c) of the formed powders;

wherein the calcining of the raw material in step (a) is conducted for a period of time less than the period of time of calcining in step (c) of the formed powders; and

wherein said organic fibers have a cross-sectional diameter of 0.1 to 100  $\mu\text{m}$  and said organic polymer particles have a diameter of 0.1 to 100  $\mu\text{m}$ .

3. (Currently Amended) A process for producing a porous sintered positive electrode for a secondary battery, said process comprising:

(a) calcining a raw material containing a lithium compound under an oxidizing atmosphere to produce ~~form~~ calcined powders;

(b) mixing the calcined powders with a removable material selected from the group consisting of organic fibers and organic polymer particles to form a raw mixture;

(c) forming said raw mixture into a raw electrode; and

(d) heating said raw electrode to remove the removable material ~~any organic fibers and any organic polymer particles~~, thereby converting said raw electrode into a porous sintered positive electrode; and

wherein said organic fibers and organic polymer particles have a diameter of 0.1 to 100  $\mu\text{m}$ .

4. (Currently Amended) The process of claim 3, wherein the heating of step (d) is conducted at a temperature higher than the temperature of calcining in step (a) ~~of from about 600°C to about 1500°C.~~

5. (currently amended) A The process of claim 3, for producing a porous sintered positive electrode for a secondary battery, said process comprising:

(a) calcining a raw material containing a lithium compound under an oxidizing atmosphere to produce calcined powders;

(b) mixing the calcined powders with a removable material selected from the group consisting of organic fibers and organic polymer particles to form a raw mixture;

(c) forming said raw mixture into a raw electrode; and

(d) heating said raw electrode to remove the removable material, thereby converting said raw electrode into a porous sintered positive electrode;

wherein the calcining in step (a) of the raw material is conducted at a temperature lower than the temperature of calcining in step (d) ~~(e)~~ of the formed powders; and

wherein the calcining of the raw material in step (a) is conducted for a period of time less than the period of time of calcining in step (d) ~~(e)~~ of the formed powders.

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